


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
Search: ☒ The ACM Digital Library ☐ The Guide



Searching within **The ACM Digital Library** for: xml document and child node and parent node and
Found **612** of **281,570**

REFINE YOUR SEARCH

[Search Results](#)
[Related Journals](#)
[Related Magazines](#)
[Related SI](#)

▼ Refine by Keywords

[Discovered Terms](#)

▼ Refine by People

[Names](#)
[Institutions](#)
[Authors](#)
[Reviewers](#)

▼ Refine by Publications

[Publication Year](#)
[Publication Names](#)
[ACM Publications](#)
[All Publications](#)
[Content Formats](#)
[Publishers](#)

▼ Refine by Conferences

[Sponsors](#)
[Events](#)
[Proceeding Series](#)

Results 1 - 20 of 612

Sort by [relevanc](#)
[Save results to a Binder](#)

Result page: [1](#) [2](#) [3](#)

1 [Describing multistructured XML documents by means of delay nodes](#)

[Jacques Le Maitre](#)

October 2006 **DocEng '06: Proceedings of the 2006 ACM symposium on DocEng**
Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (322.23 KB)

Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Downloads

Multistructured documents are documents whose structure is composed of multistructured documents. In this paper, we propose a new model of multistructured documents and its instances into XML using a new kind of multistructured documents.

Keywords: XML, XQuery, lazy evaluation, multistructured documents

2 [SilkRoute: A framework for publishing relational data in XML](#)

[Mary Fernández](#), [Yana Kadiyska](#), [Dan Suciu](#), [Atsuyuki Morishima](#), [Wang-Chen](#)

December 2002 **Transactions on Database Systems (TODS)**, Volume 27

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (687.91 KB)

Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 98, Downloads

XML is the "lingua franca" for data exchange between enterprises and applications. In SilkRoute, a framework for publishing relational data in XML. In SilkRoute, the relational tables are published as XML documents.

Keywords: XML, XML storage systems, XQuery

3 [Holistic twig joins on indexed XML documents](#)

[Haifeng Jiang](#), [Wei Wang](#), [Hongjun Lu](#), [Jeffrey Xu Yu](#)

September 2003 **VLDB '2003: Proceedings of the 29th international conference on Very Large Databases - Volume 29**, Volume 29

Publisher: VLDB Endowment

Full text available: [Pdf](#) (390.00 KB)

Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 33, Downloads

Finding all the occurrences of a twig pattern specified by a selection predicate on a document is a core operation for efficient evaluation of XML queries. This paper presents a new algorithm for finding all the occurrences of a twig pattern specified by a selection predicate on a document.

ADVANCED SEARCH

[Advanced Search](#)

FEEDBACK

[Please provide us with feedback](#)


Found **612** of **281,570**

proposed recently as an optimal solution ...

4 Archiving scientific data

 Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan
March 2004 **Transactions on Database Systems (TODS)** , Volume 29 Issue

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (745.61 KB)


Additional Information: [full citation](#), [appendix](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 180, Download

Archiving is important for scientific data, where it is necessary to record to verify findings based upon a specific version. Much scientific data is highly structured that provides ...

Keywords: Keys for XML

5 Incremental XPath evaluation

 Henrik Björklund, Wouter Gelade, Marcel Marquardt, Wim Martens
March 2009 **ICDT '09: Proceedings of the 12th International Conference on**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (589.46 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Download

We study the problem of incrementally maintaining an XPath query on a stream of updates we consider are node insertion, node deletion, and node relabeling. We show that downward XPath queries can be incrementally maintained ...

6 The complexity of query containment in expressive fragments of XPath

 Balder ten Cate, Carsten Lutz
September 2009 **Journal of the ACM (JACM)** , Volume 56 Issue 6

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (675.16 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 208, Download


XPath is a prominent W3C standard for navigating XML documents that supports both query answering and static analysis. In particular, query containment has been studied for fragments of the 1.0 version of this standard, ...

Keywords: XML, XPath, complexity, containment, satisfiability

7 On the minimization of XPath queries

 S. Fiesca, F. Furfaro, E. Masciari
February 2008 **Journal of the ACM (JACM)** , Volume 55 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (840.53 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 114, Download

XPath expressions define navigational queries on XML data and are issued against XML documents. The problem of minimizing XPath expressions is an

element nodes. Due to the wide use of XPath, which is embedded into systems for manipulating XML data, the problem of ...

Keywords: Query containment, XPath expressions, query minimization

8 [Containment and equivalence for a fragment of XPath](#)

 [Gerome Miklau, Dan Suciu](#)

January 2004 **Journal of the ACM (JACM)** , Volume 51 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (367.27 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 102, Downloads (All Time): 1,000

XPath is a language for navigating an XML document and selecting a set of nodes. XPath expressions are used to query XML data, describe key constraints, express transformations, and access remote documents. This article studies ...


Keywords: Tree pattern matching, XPath expressions, query containment

9 [Relevancy-based access control and its evaluation on versioned XML documents](#)

 [Mizuho Iwaihara, Ryotaro Hayashi, Somchai Chatvichienchai, Chutiporn An](#)

February 2007 **Transactions on Information and System Security (TISSEC)** , Volume 11 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.00 MB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 73, Downloads (All Time): 1,000

Integration of version and access control of XML documents has the benefit of reducing the size of growing archives of XML documents. Versioned XML documents provide dependencies between document nodes, but, at the same time, they also introduce ...

Keywords: Access control, XML, XPath, query language, security, versioning

10 [Forward node-selecting queries over trees](#)

 [Dan Olteanu](#)

March 2007 **Transactions on Database Systems (TODS)** , Volume 32 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (511.16 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Downloads (All Time): 1,000

Node-selecting queries over trees lie at the core of several important XML query languages. Node-selection language XPath, the query language XQuery, and the tree pattern matching language XMap are syntactic constructs of such queries ...


Keywords: Expressiveness, XML, XPath, rewriting, streams

11 [Fast XML document filtering by sequencing twig patterns](#)

 [Joonho Kwon, Praveen Rao, Bongki Moon, Sukho Lee](#)

September 2009 **Transactions on Internet Technology (TOIT)** , Volume 9 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.50 MB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 253, Downloads (24 Months): 100

XML-enabled publish-subscribe (pub-sub) systems have emerged as an important part of e-commerce and Internet applications. In a typical pub-sub system, subscribers' interests are expressed in the XPath language. ...

Keywords: Prüfer sequences, XML filtering, selective dissemination of information

12 [XRel: a path-based approach to storage and retrieval of XML documents](#)

 August 2001 **Transactions on Internet Technology (TOIT)**, Volume 1 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (264.27 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 166, Downloads (24 Months): 100

This article describes XRel, a novel approach for storage and retrieval of XML documents in relational databases. In this approach, an XML document is decomposed into nodes and edges, which are then stored in relational tables according to the structure of the document. ...


Keywords: XML query, XPath, text markup, text tagging

13 [A system for the static analysis of XPath](#)

 Pierre Genevès, Nabil Layaïda

October 2006 **Transactions on Information Systems (TOIS)**, Volume 24 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.31 MB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 50, Downloads (24 Months): 100

XPath is the standard language for navigating XML documents and returning results. This paper presents a sound and complete decision procedure for containment of XPath queries. It also addresses XPath decision problems such as satisfiability, ...


Keywords: Containment, XML, XPath, equivalence, logic, query

14 [FlexXPath: flexible structure and full-text querying for XML](#)

 Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit

June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (437.86 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 93, Downloads (24 Months): 100

Querying XML data is a well-explored topic with powerful database-style query languages. XQuery is set to become a W3C standard. An equally compelling paradigm is full-text search on textual content. In this paper, ...

[Typing and querying XML documents: some complexity bounds](#)

[Luc Segoufin](#)

June 2003 **PODS '03**: Proceedings of the twenty-second ACM SIGMOD-S of database systems

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (246.23 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 23, Downloads (24 Months): 10

We study the complexity bound of validating XML documents, viewed as against various typing systems like DTDs, XML schemas, tree automata complexities for various fragments of XPath. ...

16 [FIST: scalable XML document filtering by sequencing twig patterns](#)

[Joonho Kwon](#), [Praveen Rao](#), [Bongki Moon](#), [Sukho Lee](#)

August 2005 **VLDB '05**: Proceedings of the 31st international conference on

Publisher: VLDB Endowment

Full text available:  [Pdf](#) (359.93 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 24, Downloads (24 Months): 10

In recent years, publish-subscribe (pub-sub) systems based on XML document attention. In a typical pub-sub system, subscribed users specify their interest in language, and each new content ...

17 [Type-based XML projection](#)

[Véronique Benzaken](#), [Giuseppe Castagna](#), [Dario Colazzo](#), [Kim Nguyễn](#)

September 2006 **VLDB '06**: Proceedings of the 32nd international conference on


Publisher: VLDB Endowment

Full text available:  [Pdf](#) (574.17 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 18, Downloads (24 Months): 10

XML data projection (or pruning) is one of the main optimization techniques for main-memory XML query-engines. The underlying idea is quite simple: project the subtrees of D ...

18 [XPath leashed](#)

 [Michael Benedikt](#), [Christoph Koch](#)

December 2008 **Computing Surveys (CSUR)**, Volume 41 Issue 1

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (649.70 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 441, Downloads (24 Months): 10

This survey gives an overview of formal results on the XML query language. We discuss important fragments of XPath, focusing on subsets of XPath 1.0. We compare XPath and its fragments compared to other ...

Keywords: XML, XPath

19 [Succinct ordinal trees with level-ancestor queries](#)

 [Richard F. Geary](#), [Rajeev Raman](#), [Venkatesh Raman](#)

October 2006 **Transactions on Algorithms (TALG)** , Volume 2 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (472.00 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Downloads

We consider *succinct* or space-efficient representations of trees that effi
operations. We focus on static *ordinal* trees, that is, arbitrary static root
node are ordered. ...


Keywords: Succinct data structures, XML document representation

20 Query efficiency in probabilistic XML models

 Benny Kimelfeld, Yuri Koscharovsky, Yehoshua Sagiv

June 2008 **SIGMOD '08:** Proceedings of the 2008 ACM SIGMOD internati
data

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.04 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 125, Downl

Various known models of probabilistic XML can be represented as instar
documents have, in addition to ordinary nodes, *distributional* nodes tha
generating a random ...

Keywords: approximate query evaluation, probabilistic databases, prot
processing

Result page: [1](#) [2](#) [3](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 20

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#) 